

8/5/2015
Ms. Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road, Suite 1

Knoxville TN 37932

Project Name: Westlake Landfill
Project #:
Workorder #: 1507334

Dear Ms. Cecilia Greene

The following report includes the data for the above referenced project for sample(s) received on 7/23/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Passive S.E. RAD130 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

A Eurofins Lancaster Laboratories Company

WORK ORDER #: 1507334

Work Order Summary

CLIENT:	Ms. Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill Road, Suite 1 Knoxville, TN 37932	BILL TO:	Ms. Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill Road, Suite 1 Knoxville, TN 37932
PHONE:	865-675-3669	P.O. #	
FAX:	865-675-3677	PROJECT #	Westlake Landfill
DATE RECEIVED:	07/23/2015	CONTACT:	Kelly Buettner
DATE COMPLETED:	08/05/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	ENGWES001	Passive S.E. RAD130
02A	ENGWES005	Passive S.E. RAD130
03A	ENGWES007	Passive S.E. RAD130
04A	ENGWES008	Passive S.E. RAD130
05A	ENGWES011	Passive S.E. RAD130
06A	Duplicate	Passive S.E. RAD130
07A	Lab Blank	Passive S.E. RAD130
08A	LCS	Passive S.E. RAD130
08AA	LCSD	Passive S.E. RAD130

CERTIFIED BY:



DATE: 08/05/15

Technical Director

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**LABORATORY NARRATIVE
Passive SE GC/MS
Auxier & Associates, Inc.
Workorder# 1507334**

Six Radiello 130 (Solvent) samples were received on July 23, 2015. The laboratory extracted the charcoal sorbent bed of the passive sampler using carbon disulfide. An aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

Receiving Notes

The Chain of Custody (COC) was not relinquished properly. A date was not provided by the field sampler.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

To calculate ug/m³ concentrations in the Lab Blank, a sampling duration of 20091 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

The Relative Percent Difference (RPD) of the LCS/LCSD exceeded acceptance limits for Ethanol, Acetone and 2-Propanol.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: ENGWES001

Lab ID#: 1507334-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.075	0.91	0.68
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.29	0.18
Carbon Tetrachloride	0.10	0.074	0.44	0.33
Benzene	0.40	0.25	0.58	0.36
Heptane	0.10	0.086	0.49	0.42
Toluene	0.10	0.067	0.79	0.53
Tetrachloroethene	0.10	0.084	0.18	0.15
Ethyl Benzene	0.10	0.073	0.13	0.096
m,p-Xylene	0.10	0.071	0.42	0.30
o-Xylene	0.10	0.076	0.12	0.090

Client Sample ID: ENGWES005

Lab ID#: 1507334-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.076	1.1	0.84
2-Butanone (Methyl Ethyl Ketone)	0.10	0.064	0.26	0.16
Cyclohexane	0.10	0.093	0.11	0.10
Carbon Tetrachloride	0.10	0.075	0.34	0.25
Benzene	0.40	0.25	0.44	0.28
Heptane	0.10	0.086	0.24	0.20
Toluene	0.10	0.068	0.84	0.57
Tetrachloroethene	0.10	0.085	0.10	0.088
Ethyl Benzene	0.10	0.074	0.14	0.10
m,p-Xylene	0.10	0.072	0.44	0.32
o-Xylene	0.10	0.077	0.13	0.099

Client Sample ID: ENGWES007

Lab ID#: 1507334-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.076	0.41	0.31
Ethyl Acetate	0.40	0.26	0.64	0.41



Air Toxics

Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: ENGWES007**Lab ID#: 1507334-03A**

2-Butanone (Methyl Ethyl Ketone)	0.10	0.064	0.27	0.17
Cyclohexane	0.10	0.093	0.14	0.13
Carbon Tetrachloride	0.10	0.075	0.35	0.26
Benzene	0.40	0.25	0.41	0.26
Heptane	0.10	0.087	0.24	0.21
Toluene	0.10	0.068	1.1	0.73
Tetrachloroethene	0.10	0.085	0.12	0.10
Ethyl Benzene	0.10	0.074	0.16	0.12
m,p-Xylene	0.10	0.072	0.50	0.36
o-Xylene	0.10	0.077	0.14	0.11

Client Sample ID: ENGWES008**Lab ID#: 1507334-04A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.076	0.44	0.34
2-Butanone (Methyl Ethyl Ketone)	0.10	0.064	0.30	0.19
Cyclohexane	0.10	0.093	0.11	0.10
Carbon Tetrachloride	0.10	0.075	0.39	0.29
Benzene	0.40	0.25	0.43	0.27
Heptane	0.10	0.086	0.21	0.18
Toluene	0.10	0.068	0.73	0.50
Tetrachloroethene	0.10	0.085	0.12	0.10
Ethyl Benzene	0.10	0.074	0.13	0.094
m,p-Xylene	0.10	0.072	0.41	0.29
o-Xylene	0.10	0.077	0.12	0.092

Client Sample ID: ENGWES011**Lab ID#: 1507334-05A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.077	0.32	0.24
2-Butanone (Methyl Ethyl Ketone)	0.10	0.064	0.29	0.18
Carbon Tetrachloride	0.10	0.076	0.33	0.25



Air Toxics

Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: ENGWES011**Lab ID#: 1507334-05A**

Heptane	0.10	0.087	0.20	0.17
Toluene	0.10	0.068	0.67	0.46
Tetrachloroethene	0.10	0.086	0.15	0.12
Ethyl Benzene	0.10	0.074	0.11	0.081
m,p-Xylene	0.10	0.072	0.34	0.25

Client Sample ID: Duplicate**Lab ID#: 1507334-06A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.076	0.63	0.48
Ethyl Acetate	0.40	0.26	0.77	0.49
2-Butanone (Methyl Ethyl Ketone)	0.10	0.064	0.33	0.21
Cyclohexane	0.10	0.093	0.13	0.12
Carbon Tetrachloride	0.10	0.075	0.42	0.31
Benzene	0.40	0.25	0.48	0.30
Heptane	0.10	0.086	0.28	0.24
Toluene	0.10	0.068	1.1	0.74
Tetrachloroethene	0.10	0.085	0.12	0.10
Ethyl Benzene	0.10	0.074	0.16	0.12
m,p-Xylene	0.10	0.072	0.52	0.37
o-Xylene	0.10	0.077	0.14	0.11



Air Toxics

Client Sample ID: ENGWES001

Lab ID#: 1507334-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10080508sim	Date of Collection:	7/22/15 2:24:00 PM	
Dil. Factor:	1.00	Date of Analysis:	8/5/15 12:00 PM	
		Date of Extraction:	8/5/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.49	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	0.91	0.68
Ethyl Acetate	0.40	0.26	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.29	0.18
Chloroform	0.10	0.066	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.092	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.074	0.44	0.33
Benzene	0.40	0.25	0.58	0.36
1,2-Dichloroethane	0.10	0.065	Not Detected	Not Detected
Heptane	0.10	0.086	0.49	0.42
Trichloroethene	0.10	0.072	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	0.79	0.53
Tetrachloroethylene	0.10	0.084	0.18	0.15
Chlorobenzene	0.10	0.073	Not Detected	Not Detected
Ethyl Benzene	0.10	0.073	0.13	0.096
m,p-Xylene	0.10	0.071	0.42	0.30
o-Xylene	0.10	0.076	0.12	0.090
Styrene	0.10	0.082	Not Detected	Not Detected
Propylbenzene	0.10	0.087	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.098	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20091 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130



Air Toxics

Client Sample ID: ENGWES005

Lab ID#: 1507334-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10080509sim	Date of Collection:	7/22/15 11:04:00 AM	
Dil. Factor:	1.00	Date of Analysis:	8/5/15 12:23 PM	
		Date of Extraction:	8/5/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.49	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.077	Not Detected	Not Detected
Hexane	0.10	0.076	1.1	0.84
Ethyl Acetate	0.40	0.26	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.064	0.26	0.16
Chloroform	0.10	0.067	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.081	Not Detected	Not Detected
Cyclohexane	0.10	0.093	0.11	0.10
Carbon Tetrachloride	0.10	0.075	0.34	0.25
Benzene	0.40	0.25	0.44	0.28
1,2-Dichloroethane	0.10	0.065	Not Detected	Not Detected
Heptane	0.10	0.086	0.24	0.20
Trichloroethene	0.10	0.073	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.068	0.84	0.57
Tetrachloroethylene	0.10	0.085	0.10	0.088
Chlorobenzene	0.10	0.074	Not Detected	Not Detected
Ethyl Benzene	0.10	0.074	0.14	0.10
m,p-Xylene	0.10	0.072	0.44	0.32
o-Xylene	0.10	0.077	0.13	0.099
Styrene	0.10	0.082	Not Detected	Not Detected
Propylbenzene	0.10	0.088	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.098	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 19911 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130



Air Toxics

Client Sample ID: ENGWES007

Lab ID#: 1507334-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10080510sim	Date of Collection:	7/22/15 10:40:00 AM	
Dil. Factor:	1.00	Date of Analysis:	8/5/15 12:47 PM	
		Date of Extraction:	8/5/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.49	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.077	Not Detected	Not Detected
Hexane	0.10	0.076	0.41	0.31
Ethyl Acetate	0.40	0.26	0.64	0.41
2-Butanone (Methyl Ethyl Ketone)	0.10	0.064	0.27	0.17
Chloroform	0.10	0.067	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.081	Not Detected	Not Detected
Cyclohexane	0.10	0.093	0.14	0.13
Carbon Tetrachloride	0.10	0.075	0.35	0.26
Benzene	0.40	0.25	0.41	0.26
1,2-Dichloroethane	0.10	0.065	Not Detected	Not Detected
Heptane	0.10	0.087	0.24	0.21
Trichloroethene	0.10	0.073	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.068	1.1	0.73
Tetrachloroethylene	0.10	0.085	0.12	0.10
Chlorobenzene	0.10	0.074	Not Detected	Not Detected
Ethyl Benzene	0.10	0.074	0.16	0.12
m,p-Xylene	0.10	0.072	0.50	0.36
o-Xylene	0.10	0.077	0.14	0.11
Styrene	0.10	0.082	Not Detected	Not Detected
Propylbenzene	0.10	0.088	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.098	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 19903 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130



Air Toxics

Client Sample ID: ENGWES008

Lab ID#: 1507334-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10080511sim	Date of Collection:	7/22/15 11:29:00 AM	
Dil. Factor:	1.00	Date of Analysis:	8/5/15 01:10 PM	
		Date of Extraction:	8/5/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.49	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.077	Not Detected	Not Detected
Hexane	0.10	0.076	0.44	0.34
Ethyl Acetate	0.40	0.26	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.064	0.30	0.19
Chloroform	0.10	0.067	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.081	Not Detected	Not Detected
Cyclohexane	0.10	0.093	0.11	0.10
Carbon Tetrachloride	0.10	0.075	0.39	0.29
Benzene	0.40	0.25	0.43	0.27
1,2-Dichloroethane	0.10	0.065	Not Detected	Not Detected
Heptane	0.10	0.086	0.21	0.18
Trichloroethene	0.10	0.073	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.068	0.73	0.50
Tetrachloroethylene	0.10	0.085	0.12	0.10
Chlorobenzene	0.10	0.074	Not Detected	Not Detected
Ethyl Benzene	0.10	0.074	0.13	0.094
m,p-Xylene	0.10	0.072	0.41	0.29
o-Xylene	0.10	0.077	0.12	0.092
Styrene	0.10	0.082	Not Detected	Not Detected
Propylbenzene	0.10	0.088	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.098	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 19926 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130



Air Toxics

Client Sample ID: ENGWES011

Lab ID#: 1507334-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10080512sim	Date of Collection:	7/22/15 7:40:00 AM	
Dil. Factor:	1.00	Date of Analysis:	8/5/15 01:34 PM	
		Date of Extraction:	8/5/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.50	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.078	Not Detected	Not Detected
Hexane	0.10	0.077	0.32	0.24
Ethyl Acetate	0.40	0.26	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.064	0.29	0.18
Chloroform	0.10	0.068	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.082	Not Detected	Not Detected
Cyclohexane	0.10	0.094	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.076	0.33	0.25
Benzene	0.40	0.25	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.066	Not Detected	Not Detected
Heptane	0.10	0.087	0.20	0.17
Trichloroethene	0.10	0.073	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.068	0.67	0.46
Tetrachloroethylene	0.10	0.086	0.15	0.12
Chlorobenzene	0.10	0.074	Not Detected	Not Detected
Ethyl Benzene	0.10	0.074	0.11	0.081
m,p-Xylene	0.10	0.072	0.34	0.25
o-Xylene	0.10	0.078	Not Detected	Not Detected
Styrene	0.10	0.083	Not Detected	Not Detected
Propylbenzene	0.10	0.089	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.099	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 19736 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130



Air Toxics

Client Sample ID: Duplicate

Lab ID#: 1507334-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10080513sim	Date of Collection:	7/22/15 10:40:00 AM	
Dil. Factor:	1.00	Date of Analysis:	8/5/15 01:58 PM	
		Date of Extraction:	8/5/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.49	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.077	Not Detected	Not Detected
Hexane	0.10	0.076	0.63	0.48
Ethyl Acetate	0.40	0.26	0.77	0.49
2-Butanone (Methyl Ethyl Ketone)	0.10	0.064	0.33	0.21
Chloroform	0.10	0.067	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.081	Not Detected	Not Detected
Cyclohexane	0.10	0.093	0.13	0.12
Carbon Tetrachloride	0.10	0.075	0.42	0.31
Benzene	0.40	0.25	0.48	0.30
1,2-Dichloroethane	0.10	0.065	Not Detected	Not Detected
Heptane	0.10	0.086	0.28	0.24
Trichloroethene	0.10	0.073	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.068	1.1	0.74
Tetrachloroethylene	0.10	0.085	0.12	0.10
Chlorobenzene	0.10	0.074	Not Detected	Not Detected
Ethyl Benzene	0.10	0.074	0.16	0.12
m,p-Xylene	0.10	0.072	0.52	0.37
o-Xylene	0.10	0.077	0.14	0.11
Styrene	0.10	0.082	Not Detected	Not Detected
Propylbenzene	0.10	0.088	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.098	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 19916 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507334-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10080507sim	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 8/5/15 11:36 AM		
		Date of Extraction: 8/5/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.49	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	Not Detected	Not Detected
Ethyl Acetate	0.40	0.26	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	Not Detected	Not Detected
Chloroform	0.10	0.066	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.092	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.074	Not Detected	Not Detected
Benzene	0.40	0.25	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.065	Not Detected	Not Detected
Heptane	0.10	0.086	Not Detected	Not Detected
Trichloroethylene	0.10	0.072	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	Not Detected	Not Detected
Tetrachloroethylene	0.10	0.084	Not Detected	Not Detected
Chlorobenzene	0.10	0.073	Not Detected	Not Detected
Ethyl Benzene	0.10	0.073	Not Detected	Not Detected
m,p-Xylene	0.10	0.071	Not Detected	Not Detected
o-Xylene	0.10	0.076	Not Detected	Not Detected
Styrene	0.10	0.082	Not Detected	Not Detected
Propylbenzene	0.10	0.087	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.098	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20091 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1507334-08A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10080504sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/5/15 10:00 AM
		Date of Extraction: 8/5/15

Compound	%Recovery	Method Limits
Ethanol	59	50-130
Acetone	78	70-130
2-Propanol	77	50-130
Methyl tert-butyl ether	95	70-130
Hexane	93	70-130
Ethyl Acetate	99	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	113	70-130
Cyclohexane	112	70-130
Carbon Tetrachloride	90	70-130
Benzene	93	70-130
1,2-Dichloroethane	84	70-130
Heptane	94	70-130
Trichloroethene	103	70-130
4-Methyl-2-pentanone	107	70-130
Toluene	98	70-130
Tetrachloroethylene	107	70-130
Chlorobenzene	93	70-130
Ethyl Benzene	101	70-130
m,p-Xylene	99	70-130
o-Xylene	91	70-130
Styrene	67	20-100
Propylbenzene	99	70-130
1,4-Dichlorobenzene	86	50-110
Naphthalene	8.6	5-80

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1507334-08AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10080505sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/5/15 10:23 AM
		Date of Extraction: 8/5/15

Compound	%Recovery	Method Limits
Ethanol	83	50-130
Acetone	101	70-130
2-Propanol	102	50-130
Methyl tert-butyl ether	98	70-130
Hexane	104	70-130
Ethyl Acetate	109	70-130
2-Butanone (Methyl Ethyl Ketone)	108	70-130
Chloroform	99	70-130
1,1,1-Trichloroethane	116	70-130
Cyclohexane	117	70-130
Carbon Tetrachloride	109	70-130
Benzene	104	70-130
1,2-Dichloroethane	107	70-130
Heptane	95	70-130
Trichloroethene	107	70-130
4-Methyl-2-pentanone	108	70-130
Toluene	99	70-130
Tetrachloroethylene	109	70-130
Chlorobenzene	91	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	101	70-130
o-Xylene	89	70-130
Styrene	66	20-100
Propylbenzene	97	70-130
1,4-Dichlorobenzene	83	50-110
Naphthalene	8.4	5-80

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130